

Powertrain Battery Engineer



Green innovation meets performance

Our Project

Formula Electric Belgium is a student-based race team that pushes green innovation to performance. We design and build our own electric race car each year to participate in international Formula Student competitions. We are looking for pioneers to challenge the status quo and bring our top-notch electric race car to the next level. As a postgraduate student, you will research, design, and test your systems together with a group of highly motivated students. You will innovate together with your team members and numerous companies to develop our next generation formula student race car.

Function

In this role, you will be responsible for the mechanical design of the battery system, with a primary focus on the **Tractive System Accumulator Container (TSAC)**. This includes the structural design of the battery casing, integration of electronic components, material selection, and the use of composites to achieve a lightweight yet robust enclosure.

To ensure compliance with safety and performance requirements, you will perform **calculations, simulations, and physical testing**.

In addition, you will be responsible for the **thermal management of the battery cells**, designing and optimizing the cooling concept using CFD simulations. Your work will directly contribute to the performance, safety, and reliability of the electric powertrain.

Profile

- Bachelor/Master Engineering Science, Engineering Technology or equivalent
- Knowledge about heat transfer and fluid dynamics
- Interest in with CAD/FEM software
- Practical insight in mechanical connection techniques

Returns

- A unique engineering experience
- Developing your hard- and soft-skills in a company-like environment
- Work with the newest technologies and innovative companies
- Work in a team with a network of well over 120 partners
- A summer season packed with competitions all over Europe
- An experience of a life-time!

Up for the challenge?



Submit your **resume** and **motivation letter** (one page) to
recruitment@formulaelectric.be